TEJUS
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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike		
Project	Improvements to swd in ward No. 08, Kodigehalli		
Consultants	TEJUS CONSULTANTS		
Contractor	M/s KRIDL		
Total Weight:	10000	gms	

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	At Site/Plant		Date of Sampling	17.01.2019	
			Date of Testing	17.01.2019	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	555	555	5.55	94.45	90-100
10.0	4623	5178	51.78	48.22	40-85
4.75	4551	9729	97.29	2.71	0-10
Pan	271	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Improvements to swd in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	18.01.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	347 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to swd in ward No. 08, Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	18.01.2019
		Date of Testing	18.01.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	269	269	2.69	97.31	95 - 100
10.00 mm	4830	5099	50.99	49.01	25 - 55
4.75 mm	4223	9322	93.22	6.78	0 - 10
Pan	678	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to swd in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	18.01.2019	25.01.2019	7 days	8.134	22500	280	12.44	12.64
2	18.01.2019	25.01.2019	7 days	8.127	22500	282	12.53	
3	18.01.2019	25.01.2019	7 days	8.135	22500	283	12.58	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to swd in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	18.01.2019	15.02.2019	28days	8.135	22500	451	20.04	20.09
2	18.01.2019	15.02.2019	28days	8.200	22500	452	20.09	
3	18.01.2019	15.02.2019	28days	8.125	22500	453	20.13	

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Test Report on Cement

Project	Improvements to swd in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	19.01.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	2mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to swd in ward No. 08, Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	19.01.2019
		Date of Testing	19.01.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	29	29	0.29	99.71	95 - 100
10.00 mm	4836	4865	48.65	51.35	25 - 55
4.75 mm	4223	9088	90.88	9.12	0 - 10
Pan	912	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to swd in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	19.01.2019	26.01.2019	7 days	8.134	22500	283	12.58	12.64
2	19.01.2019	26.01.2019	7 days	8.127	22500	284	12.62	
3	19.01.2019	26.01.2019	7 days	8.135	22500	286	12.71	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to swd in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	19.01.2019	16.02.2019	28days	8.135	22500	452	20.09	20.07
2	19.01.2019	16.02.2019	28days	8.200	22500	453	20.13	
3	19.01.2019	16.02.2019	28days	8.125	22500	450	20.00	

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s KRIDL
Name of Work	:	Improvements to swd in ward No. 08, Kodigehalli
No. of Sample Tested	:	3
Date of Testing	:	23.01.2019
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}. 100mm thick

Sl No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.454	2569.11	1.80	0.960	38.56	19.60	21.17	20.32	25.40
2	50.00	90.00	0.465	2631.36	1.80	0.960	38.42	19.50	21.06	20.22	25.27
3	50.00	90.00	0.570	3225.54	1.80	0.960	38.56	19.60	21.17	20.32	25.40

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s KRIDL
Name of Work	:	Improvements to swd in ward No. 08, Kodigehalli
No.of Sample Tested	:	3
Date of Testing	:	23.01.2019
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}. 100mm thick

Sl.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.452	2557.80	1.80	0.960	38.56	19.60	21.17	20.32	25.40
2	50.00	90.00	0.458	2591.75	1.80	0.960	38.42	19.50	21.06	20.22	25.27
3	50.00	90.00	0.575	3253.83	1.80	0.960	38.56	19.60	21.17	20.32	25.40

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PRECAST SLAB (CORE) TEST REPORT

nt	:	Bruhat Bangalore Mahanagara Palike
ractor	:	M/S KRIDL
ultants		TEJUS CONSULTANTS
e of Work	:	Improvements to swd in ward No. 08, Kodigehalli
f Sample Tested	:	3
e of Testing	:	23.01.2019
nical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
e of Concrete	:	M_{20} - 250mm Thick

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	100.00	180.00	3.392	2399.35	1.80	0.960	158.10	20.13	21.74	20.87	26.09
	100.00	180.00	3.399	2404.30	1.80	0.960	158.30	20.16	21.77	20.90	26.12
	100.00	180.00	3.385	2394.40	1.80	0.960	158.50	20.18	21.80	20.92	26.15

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to swd in ward No. 08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	06.02.2019
Period of Soaking	24 hours	**Date of Testing**	06.02.2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		666	676	660	
B	Weight of oven - dry sample gm.		652	668	650	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1699	1696	1685	
E	Bulk specific gravity	B / (C + A - D)	2.694	2.620	2.600	**2.638**
G	Absorption (%)	(A - B) *100 / B	2.147	1.198	1.538	**1.628**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to swd in ward No. 08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/ M sand)**	**Proposed Use**	concrete
Sample Location	At Site/Plant	**Date of Sampling**	06.02.2019
		Date of Testing	06.02.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	**100**
4.75 mm	212	212	7.07	92.93	**90 - 100**
2.36 mm	309	521	17.37	82.63	**75 - 100**
1.18 mm	423	944	31.47	68.53	**55 - 90**
0.600 mm	478	1422	47.40	52.60	**35 -59**
0.300 mm	722	2144	71.47	28.53	**8-30**
0.150 mm	630	2774	92.47	7.53	**0 - 10**
Pan	226	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to swd in ward No. 08, Kodigehalli				
Consultants	TEJUS CONSULTANTS				
Contractor	M/s KRIDL				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**		**Proposed Use**	Concrete	
Sample Location	At Site/Plant		**Date of Sampling**	06.02.2019	
			Date of Testing	06.02.2019	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	565	565	5.65	94.35	**90-100**
10.0	4685	5250	52.50	47.50	**40-85**
4.75	4625	9875	98.75	1.25	**0-10**
Pan	125	10000			

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